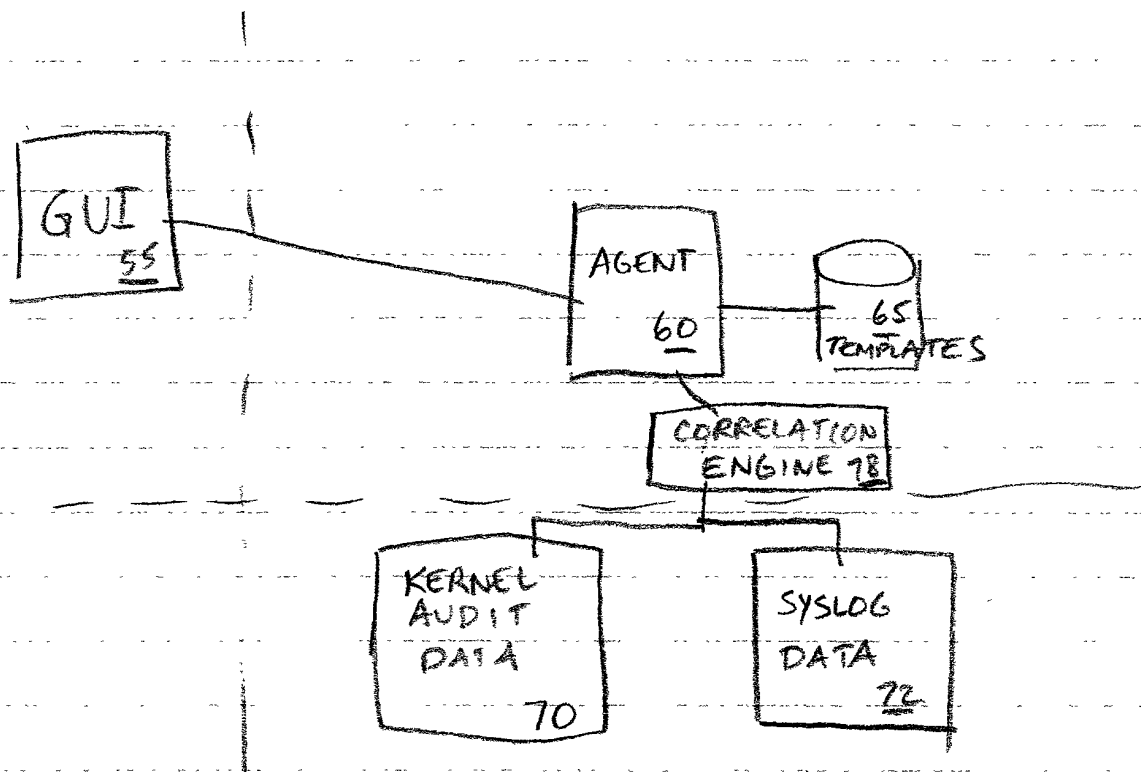


FIG. 1



How do the agent processes fit together?

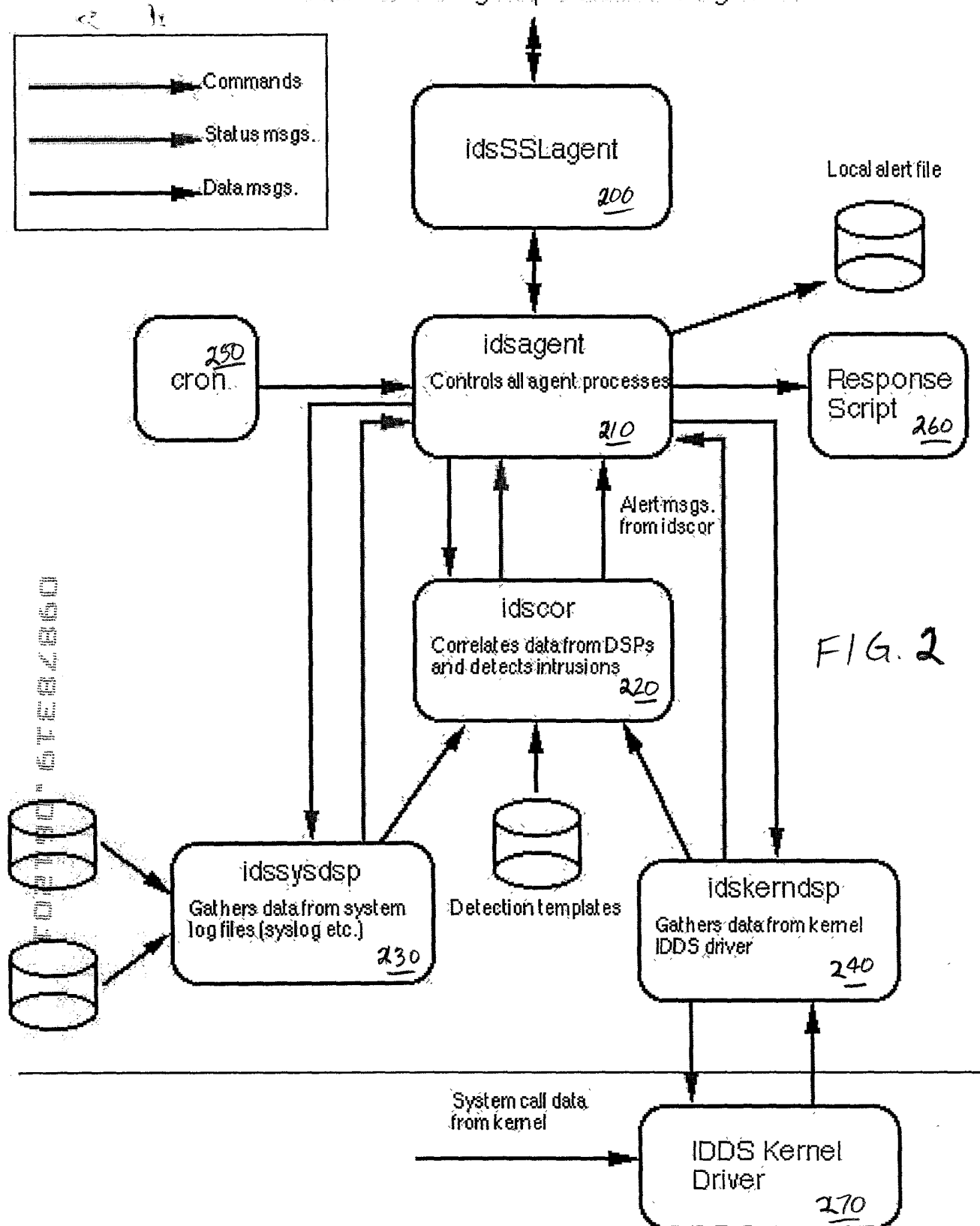


FIG. 2

09876319-061201

350
Templates determine if a potential intrusion has occurred.

Detection templates

305
User process calls a library function in libc
310
libc makes a system call into the kernel

syscall path checks if syscall is audited. Gathers data. 315

325
syscall returns to user application

Data is put on circular buffer 320

driver 330
reads record from buffer

270
IDDS Kernel Driver

ASCII audit record is sent to idscor for processing 342

idskerndsp
340
Formats data from kernel IDDS driver into ASCII form

335
kemdsp reads records

idscor
345
Parses data from DSP and provides it to currently loaded templates

Alert message is sent to idsagent 355

idsagent 375
Reformats alert for GUI 360
Receives alert message from idscor 360

365
Executes response script 360
Response Script

370
Logs to local alert file

Local alert file

380
Sends alert to GUI

idsSSLagent 200

Alert text is sent to GUI in an SSL packet. 385

FIG. 3



- Remote connection

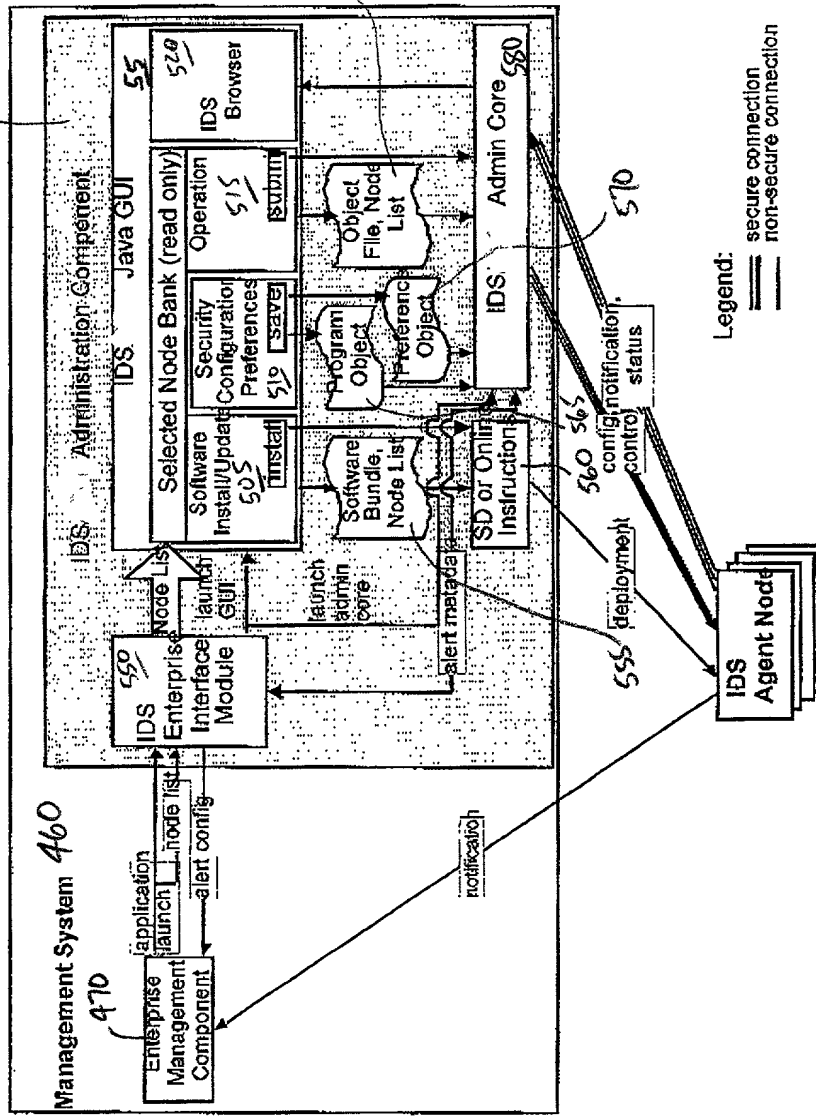
- Control/Status

- Engine state dump

- Network-

- Web server patterns (from logs)

FIG. 5



Infrastructure

- Admin Core
- Remote connection
- Secure communications

Operation/Control

- Installation
- Initialization
- Configuration
- Control/Status
- Message handling
- GUIs